Plant Science, 81 (1992) 277–278
Elsevier Scientific Publishers Ireland Ltd.

Contents

Volume 81 (1992)

PHYSIOLOGY AND BIOCHEMISTRY

Characterization and localization of rice (*Oryza sativa* L.) seed globulins
by H.B. Krishnan, J.A. White and S.G. Pueppke (Columbia, MO) 1–11

Consequences of herbicide-induced pigment deficiencies on thylakoid membrane proteins of *Chlamydomonas reinhardtii*
by M.A. Ruizzo, R. Bertekap and M.L. Mishkind(New Brunswick, NJ) 13–20

Soybean seed 34-kDa oil-body-associated protein separated by two-dimensional gel electrophoresis
by S. Komatsu, H. Kajiwara and H. Hirano (Ibaraki, Japan) 21–27

Mechanism of action of a dimeric phosphofructokinase from banana: role of magnesium on its kinetics and regulation
by K.K. Surendranathan, M.G. Iyer and P.M. Nair (Bombay, India) 29–36

Compared properties of phosphoenolpyruvate carboxylase from dark- and light-adapted *Sorghum* leaves: use of a rapid purification technique by immunochromatography
by M. Arrio-Dupont, N. Bakrim, C. Echevarria, P. Gadal, P. Le Maréchal and J. Vidal (Orsay, France) 37–46

Peroxidase-regulated elongation of segments from peanut hypocotyls
by X. Zheng and R.B. van Huystee (London, Canada) 47–56

Utilization of petroselinate (C 18:1$^{\Delta 6}$) by glycerol acylation enzymes in microsomal preparations of developing embryos of carrot (*Daucus carota* L.), safflower (*Carthamus tinctorius* L.) and oil rape (*Brassica napus* L.).
by P.C. Dutta, L.-Å. Appelqvist and S. Stymne (Uppsala, Sweden) 57–64

GENETICS AND MOLECULAR BIOLOGY

Optimization of conditions for electroporation and transient expression of foreign genes in sugarcane protoplasts
by C. Rathus and R.G. Birch (Indooroopilly, Australia) 65–74

The structure of the cytochrome oxidase subunit II gene and its use as a new character in the construction of the phylogenetic tree of Angiospermae
by C. De Benedetto, L. De Gara, O. Arrigoni, M. Albrizio and R. Gallerani (Bari, Italy) 75–82

Production of insect resistant potato by genetic transformation with a δ-endotoxin gene from *Bacillus thuringiensis* var. *kurstaki*
by J. Cheng, M.G. Bolyard, R.C. Saxena and M.B. Sticklen (Lansing, MI) 83–91

Expression of the rice chloroplast *psa*A-*psa*B-*rps*14 gene cluster
by S.G. Chen, M. Cheng, K. Chung, N. Yu and M. Chen (Taiwan, Republic of China) 93–102

CELL AND TISSUE STUDIES IN VITRO

Somatic embryogenesis from zygotic embryos of sugar beet (*Beta vulgaris* L.)
by P. Tenning, E.W. Weich, U.-B. Kjärsgaard, M.-A. Lelu and M. Nihlgård (Landskrona, Sweden) 103–109

Plantlet regeneration from suspension cultures of *Valeriana wallichii* DC.
by J. Mathur (Gorakhpur, India) 111–115

Media for the in ovulo culture of proembryos of wheat and wheat-derived interspecific hybrids or haploids
by A. Comeau, P. Nadeau, A. Plourde, R. Simard, O. Maës, S. Kelly, L. Harper, J. Lettre, B. Landry and C.-A. St-Pierre (Ste-Foy, Winnipeg, Ville de Laval and St-Jean-sur-Richelieu, Canada) 117–125

Tomato susceptibility to *Alternaria* stem canker: Parameters involved in host-specific toxin-induced leaf necrosis
by H.M.A. Witsenboer, K.M. Kloosterziel, G. Hateboer, H.J.J. Nijkamp and J. Hille (Amsterdam, The Netherlands) 127–134

GENERAL

Chimerism as the basis for the occurrence of amylose synthesizing clones derived from an amylose-free potato mutant
by F.R. van der Leij, H. Enequist, P. Terpstra and W.J. Feenstra (Haren and Groningen, The Netherlands) 125–139

Book Review 141

PHYSIOLOGY AND BIOCHEMISTRY

Epidermal cell elongation in sorghum seminal roots exposed to high root-zone temperature
by J.R. Pardales Jr., Y. Kono and A. Yamauchi (Nagoya, Japan) 143–146

Purification and characterization of anionic peroxidases from cotton (*Gossypium hirsutum* L.)
by B.A. Triplett and J.E. Mellon (New Orleans, LA) 147–154

Role of histidine residues and mechanism of action of isocitrate lyase of castor seedling endosperm
by O.P. Malhotra and J. Singh (Varanasi, India) 155–162

Unique properties of cell wall-associated β-glucosidases
by G. Nagahashi, G.D. Lassiter and D.L. Patterson (Wyndmoor, PA) 163–168

The active photosystem II centers can make a significant contribution to the initial fluorescence rise from F_0 to F_i
by B.-D. Hsu (Hsin-Chu, Taiwan) 169–174

Truffle tyrosinase: Properties and activity
by M. Miranda, A. Bonfigli, O. Zarivi, A.M. Ragnelli, G. Pacioni and D. Botti (L'Aquila, Italy) . 175–182

Purification and characterization of a new lectin from tamarillo fruit (*Cynhomandra betacea*)
by C. Xu, C.H. Moore, D.W. Fountain and P.-L. Yu (Palmerston North, New Zealand) 183–189

Physiological response of herbicide-resistant cell variants of *Datura innoxia* to branched-chain amino acids
by B. Rathinasabapathi and J. King (Saskatoon, Canada) 191–198

GENETICS AND MOLECULAR BIOLOGY

Genetic transformation of *Antirrhinum majus* L. and inheritance of altered phenotype induced by Ri T-DNA
by T. Handa (Ishikawa, Japan) 199–206

Rapid screening for host-bacterium interactions in *Agrobacterium*-mediated gene transfer to chrysanthemum, by using the GUS-intron gene
by M.F. Van Wordragen, J. De Jong, M.J. Schornagel and H.J.M. Dons (Wageningen, The Netherlands) 207–214

Molecular cloning and sequencing of a cDNA encoding the maize (*Zea mays* L.) acyl carrier protein (ACP); comparison to other ACP genes and ACPs
by G. Souciet and J.-H. Weil (Strasbourg, France) 215–225

Cloning and characterization of an apple (*Malus domestica* (L.) Borkh) cDNA encoding a calmodulin-binding protein domain similar to the calmodulin-binding region of type II mammalian Ca^{2+}/calmodulin-dependent protein kinase
by B. Watillon, R. Kettmann, Ph. Boxus and A. Burny (Gembloux, Belgium) 227–235

CELL AND TISSUE STUDIES IN VITRO

Long-term survival of *Vicia* guard cell protoplasts in cell culture
by S. Herscovich, G. Tallman and E. Zeiger (Stanford and Malibu, CA) 237–244

Stimulation of in vitro shoot organogenesis in *Glycine max* (Merrill.) by allantoin and amides
by K. Shetty, Y. Asano and K. Oosawa (Ibaraki, Japan) 245–251

The development of protoplast-to-tree systems for *Prunus cerasifera* and *Prunus spinosa*
by S.J. Ochatt (Angers, France) 253–259

In vitro gynogenesis in *Melandrium album*: from parthenogenetic embryos to mixoploid plants
by R. Mól (Poznań, Poland) 261–269

Subject Index Volume 81 (1992) 271–273

Author Index Volume 81 (1992) 275

Contents Volume 81 (1992) 277–278